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**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/09/894,967A**

DATE: 05/01/2002  
 TIME: 12:39:32

Input Set : A:\2307k\_059110.app  
 Output Set: N:\CRF3\05012002\I894967A.raw

**SEQUENCE LISTING****ENTERED**

- 4 (1) GENERAL INFORMATION:
  - 6 (i) APPLICANT: Kavanaugh, William M.  
7 Williams, Lewis T.
  - 9 (ii) TITLE OF INVENTION: Binding Sites for Phosphotyrosine  
10 Binding Domains
  - 12 (iii) NUMBER OF SEQUENCES: 74
  - 14 (iv) CORRESPONDENCE ADDRESS:
    - 15 (A) ADDRESSEE: Townsend and Townsend and Crew LLP
    - 16 (B) STREET: Two Embarcadero Center, 8th Floor
    - 17 (C) CITY: San Francisco
    - 18 (D) STATE: California
    - 19 (E) COUNTRY: USA
    - 20 (F) ZIP: 94111-3834
  - 22 (v) COMPUTER READABLE FORM:
    - 23 (A) MEDIUM TYPE: Floppy disk
    - 24 (B) COMPUTER: IBM PC compatible
    - 25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
    - 26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
  - 28 (vi) CURRENT APPLICATION DATA:
    - C--> 29 (A) APPLICATION NUMBER: US/09/894,967A
    - C--> 30 (B) FILING DATE: 15-Apr-2002
    - 31 (C) CLASSIFICATION:
  - 33 (vii) PRIOR APPLICATION DATA:
    - 34 (A) APPLICATION NUMBER: US 08/423,646
    - 35 (B) FILING DATE: 14-APR-1995
  - 37 (viii) ATTORNEY/AGENT INFORMATION:
    - 38 (A) NAME: Serafini, Andrew T.
    - 39 (B) REGISTRATION NUMBER: 41,303
    - 40 (C) REFERENCE/DOCKET NUMBER: 2307K-059110
  - 42 (ix) TELECOMMUNICATION INFORMATION:
    - 43 (A) TELEPHONE: 415-326-2400
    - 44 (B) TELEFAX: 415-326-2422
- 48 (2) INFORMATION FOR SEQ ID NO: 1:
  - 50 (i) SEQUENCE CHARACTERISTICS:
    - 51 (A) LENGTH: 5 amino acids
    - 52 (B) TYPE: amino acid
    - 53 (C) STRANDEDNESS: single
    - 54 (D) TOPOLOGY: linear
  - 56 (ii) MOLECULE TYPE: peptide
  - 59 (ix) FEATURE:
    - 60 (A) NAME/KEY: Region
    - 61 (B) LOCATION: one-of(2)

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62 (D) OTHER INFORMATION: /note= "Xaa is Leu or Ala."  
64 (ix) FEATURE:  
65 (A) NAME/KEY: Region  
66 (B) LOCATION: one-of(3)  
67 (D) OTHER INFORMATION: /note= "Xaa is Tyr, phosphotyrosine  
68 or analogs thereof, Glu, Thr, Asp, Gln, Ala or  
69 Phe."  
71 (ix) FEATURE:  
72 (A) NAME/KEY: Region  
73 (B) LOCATION: one-of(4)  
74 (D) OTHER INFORMATION: /note= "Xaa is Tyr, phosphotyrosine  
75 or analogs thereof."  
77 (ix) FEATURE:  
78 (A) NAME/KEY: Region  
79 (B) LOCATION: one-of(5)  
80 (D) OTHER INFORMATION: /note= "Xaa is Trp, Leu, Ser, Phe or Gln."  
83 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
W--> 85 Asn Xaa Xaa Xaa Xaa  
86 1 5  
89 (2) INFORMATION FOR SEQ ID NO: 2:  
91 (i) SEQUENCE CHARACTERISTICS:  
92 (A) LENGTH: 6 amino acids  
93 (B) TYPE: amino acid  
94 (C) STRANDEDNESS: single  
95 (D) TOPOLOGY: linear  
97 (ii) MOLECULE TYPE: peptide  
100 (ix) FEATURE:  
101 (A) NAME/KEY: Region  
102 (B) LOCATION: one-of(1)  
103 (D) OTHER INFORMATION: /note= "Xaa is Asp, Ser, Glu or Ala."  
105 (ix) FEATURE:  
106 (A) NAME/KEY: Region  
107 (B) LOCATION: one-of(3)  
108 (D) OTHER INFORMATION: /note= "Xaa is Leu or Ala."  
110 (ix) FEATURE:  
111 (A) NAME/KEY: Region  
112 (B) LOCATION: one-of(4)  
113 (D) OTHER INFORMATION: /note= "Xaa is Tyr, phosphotyrosine  
114 or analogs thereof, Glu, Thr, Asp, Gln, Ala or  
115 Phe."  
117 (ix) FEATURE:  
118 (A) NAME/KEY: Region  
119 (B) LOCATION: one-of(5)  
120 (D) OTHER INFORMATION: /note= "Xaa is Tyr, phosphotyrosine  
121 or analogs thereof."  
123 (ix) FEATURE:  
124 (A) NAME/KEY: Region  
125 (B) LOCATION: one-of(6)  
126 (D) OTHER INFORMATION: /note= "Xaa is Trp, Leu, Ser, Phe or Gln."

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129 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
W--> 131       **Xaa Asn Xaa Xaa Xaa Xaa**  
132        1               5  
135 (2) INFORMATION FOR SEQ ID NO: 3:  
137        (i) SEQUENCE CHARACTERISTICS:  
138              (A) LENGTH: 6 amino acids  
139              (B) TYPE: amino acid  
140              (C) STRANDEDNESS: single  
141              (D) TOPOLOGY: linear  
143        (ii) MOLECULE TYPE: peptide  
146        (ix) FEATURE:  
147              (A) NAME/KEY: Region  
148              (B) LOCATION: one-of(3)  
149              (D) OTHER INFORMATION: /note= "Xaa is Leu or Ala."  
151        (ix) FEATURE:  
152              (A) NAME/KEY: Region  
153              (B) LOCATION: one-of(4)  
154              (D) OTHER INFORMATION: /note= "Xaa is Tyr, phosphotyrosine  
155 or analogs thereof, Glu, Thr, Asp, Gln, Ala or  
156 Phe."  
158        (ix) FEATURE:  
159              (A) NAME/KEY: Region  
160              (B) LOCATION: one-of(5)  
161              (D) OTHER INFORMATION: /note= "Xaa is Tyr, phosphotyrosine  
162 or analogs thereof."  
164        (ix) FEATURE:  
165              (A) NAME/KEY: Region  
166              (B) LOCATION: one-of(6)  
167              (D) OTHER INFORMATION: /note= "Xaa is Trp or Phe."  
170 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
W--> 172        **Asp Asn Xaa Xaa Xaa Xaa**  
173        1               5  
176 (2) INFORMATION FOR SEQ ID NO: 4:  
178        (i) SEQUENCE CHARACTERISTICS:  
179              (A) LENGTH: 6 amino acids  
180              (B) TYPE: amino acid  
181              (C) STRANDEDNESS: single  
182              (D) TOPOLOGY: linear  
184        (ii) MOLECULE TYPE: peptide  
187        (ix) FEATURE:  
188              (A) NAME/KEY: Region  
189              (B) LOCATION: one-of(3)  
190              (D) OTHER INFORMATION: /note= "Xaa is Leu or Ala."  
192        (ix) FEATURE:  
193              (A) NAME/KEY: Region  
194              (B) LOCATION: one-of(4)  
195              (D) OTHER INFORMATION: /note= "Xaa is Tyr, phosphotyrosine  
196 or analogs thereof, Glu, Thr, Asp, Gln, Ala or  
197 Phe."

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199      (ix) FEATURE:
200          (A) NAME/KEY: Region
201          (B) LOCATION: one-of(5)
202          (D) OTHER INFORMATION: /note= "Xaa is Tyr, phosphotyrosine
203 or analogs thereof."
205      (ix) FEATURE:
206          (A) NAME/KEY: Region
207          (B) LOCATION: one-of(6)
208          (D) OTHER INFORMATION: /note= "Xaa is Trp or Phe."
211      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
W--> 213      Glu Asn Xaa Xaa Xaa Xaa
214          1           5
217 (2) INFORMATION FOR SEQ ID NO: 5:
219      (i) SEQUENCE CHARACTERISTICS:
220          (A) LENGTH: 12 amino acids
221          (B) TYPE: amino acid
222          (C) STRANDEDNESS: single
223          (D) TOPOLOGY: linear
225      (ii) MOLECULE TYPE: peptide
228      (ix) FEATURE:
229          (A) NAME/KEY: Region
230          (B) LOCATION: one-of(7)
231          (D) OTHER INFORMATION: /note= "Xaa is phosphotyrosine."
234      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
W--> 236      Ala Phe Asp Asn Leu Tyr Xaa Trp Asp Gln Asn Ser
237          1           5           10
240 (2) INFORMATION FOR SEQ ID NO: 6:
242      (i) SEQUENCE CHARACTERISTICS:
243          (A) LENGTH: 12 amino acids
244          (B) TYPE: amino acid
245          (C) STRANDEDNESS: single
246          (D) TOPOLOGY: linear
248      (ii) MOLECULE TYPE: peptide
251      (ix) FEATURE:
252          (A) NAME/KEY: Region
253          (B) LOCATION: one-of(6)
254          (D) OTHER INFORMATION: /note= "Xaa is phosphotyrosine."
257      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
W--> 259      Ala Phe Asp Asn Leu Xaa Tyr Trp Asp Gln Asn Ser
260          1           5           10
263 (2) INFORMATION FOR SEQ ID NO: 7:
265      (i) SEQUENCE CHARACTERISTICS:
266          (A) LENGTH: 12 amino acids
267          (B) TYPE: amino acid
268          (C) STRANDEDNESS: single
269          (D) TOPOLOGY: linear
271      (ii) MOLECULE TYPE: peptide
274      (ix) FEATURE:
275          (A) NAME/KEY: Region

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276               (B) LOCATION: one-of(6,7)  
277               (D) OTHER INFORMATION: /note= "Xaa is phosphotyrosine."  
280               (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
W--> 282       **Ala Phe Asp Asn Leu Xaa Xaa Trp Asp Gln Asn Ser**  
283        1                       5                                   10  
286 (2) INFORMATION FOR SEQ ID NO: 8:  
288               (i) SEQUENCE CHARACTERISTICS:  
289               (A) LENGTH: 21 amino acids  
290               (B) TYPE: amino acid  
291               (C) STRANDEDNESS: single  
292               (D) TOPOLOGY: linear  
294               (ii) MOLECULE TYPE: peptide  
297               (ix) FEATURE:  
298                (A) NAME/KEY: Region  
299                (B) LOCATION: one-of(12)  
300                (D) OTHER INFORMATION: /note= "Xaa is phosphotyrosine."  
303               (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
W--> 305       **Pro Ala Phe Ser Pro Ala Phe Asp Asn Leu Tyr Xaa Trp Asp Gln Asn**  
306        1                       5                                   10                       15  
308        Ser Ser Glu Gln Gly  
309                               20  
312 (2) INFORMATION FOR SEQ ID NO: 9:  
314               (i) SEQUENCE CHARACTERISTICS:  
315               (A) LENGTH: 21 amino acids  
316               (B) TYPE: amino acid  
317               (C) STRANDEDNESS: single  
318               (D) TOPOLOGY: linear  
320               (ii) MOLECULE TYPE: peptide  
323               (ix) FEATURE:  
324                (A) NAME/KEY: Region  
325                (B) LOCATION: one-of(11)  
326                (D) OTHER INFORMATION: /note= "Xaa is phosphotyrosine."  
329               (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
W--> 331       **Pro Ala Phe Ser Pro Ala Phe Asp Asn Leu Xaa Tyr Trp Asp Gln Asn**  
332        1                       5                                   10                       15  
334        Ser Ser Glu Gln Gly  
335                               20  
338 (2) INFORMATION FOR SEQ ID NO: 10:  
340               (i) SEQUENCE CHARACTERISTICS:  
341               (A) LENGTH: 21 amino acids  
342               (B) TYPE: amino acid  
343               (C) STRANDEDNESS: single  
344               (D) TOPOLOGY: linear  
346               (ii) MOLECULE TYPE: peptide  
349               (ix) FEATURE:  
350                (A) NAME/KEY: Region  
351                (B) LOCATION: one-of(11,12)  
352                (D) OTHER INFORMATION: /note= "Xaa is phosphotyrosine."  
355               (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10: